

Application No. : 10/651,451
Filed : August 29, 2003

IN THE CLAIMS

Please amend Claims 71 and 80, and add new Claims 86-88 as follows:

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1.-40. (Cancelled)

41. (Previously presented) A method of selectively providing information to the passengers of an elevator car, comprising:

10 passively analyzing at least one selection made via an input device by at least one of said passengers;

retrieving stored information based on said at least one selection, said stored information being contextually related to said at least one selection; and

displaying at least a portion of said stored information on at least one display device viewable by said at least one passenger.

15 42. (Previously presented) The method of Claim 41, wherein said act of retrieving comprises retrieving a graphic data file from a data storage device.

43. (Previously presented) The method of Claim 41, wherein the act of analyzing comprises associating at least one value for at least one parameter with said at least one selection, and identifying said stored information for retrieval based on said at least one value of said at least
20 one parameter.

44. (Previously presented) The method of Claim 43, wherein the act of associating said at least one value with said at least one parameter comprises associating a data code word with a particular selection of a function of said input device selected by said passenger, and the act of identifying said stored information comprises matching said code word to data contained in a
25 database having said same code word associated therewith.

45. (Previously presented) The method of Claim 43, wherein the act of associating said at least one value with said at least one parameter comprises associating a particular selection of a function of said input device selected by said passenger with a subset of said stored information relating to said selected function.

46. (Previously presented) The method of Claim 45, wherein said function comprises directing said elevator car to a particular destination within a structure, and said subset of stored information comprises information relating to the occupants of said particular destination.

47. (Previously presented) The method of Claim 46, further comprising:

5 detecting a plurality of commands directing said elevator car to respective ones of a plurality of destinations; and

retrieving and displaying a plurality of stored information relating to respective ones of said plurality of destinations, said act of displaying comprising displaying the respective stored information in the order in which said destinations are encountered during travel of said elevator
10 car.

48. (Previously presented) The method of Claim 42, wherein said act of displaying said at least portion of said stored information comprises displaying at least said graphic data file.

49. (Previously presented) The method of Claim 48, wherein the act of displaying at least graphic data file further comprises displaying a video clip or moving animation having
15 advertising content associated therewith.

50. (Previously presented) A method of selectively providing information to the passengers of an elevator car, comprising:

passively sampling the speech of at least one of said passengers;

retrieving stored information based on said sampled speech, said stored information being
20 contextually related to at least portions of said sampled speech; and

displaying at least a portion of said stored information on at least one display device viewable by said at least one passenger.

51. (Previously presented) The method of Claim 50, wherein said act of retrieving comprises retrieving a graphic data file from a data storage device.

52. (Previously presented) The method of Claim 50, further comprising:

analyzing the context of said speech using an algorithm; and

identifying said stored information using said algorithm and based at least in part based on said context.

53. (Previously presented) The method of Claim 52, wherein the act of analyzing
30 comprises associating at least one value for at least one parameter with said data, and identifying said stored information for retrieval based on said at least one value of said at least one parameter.

54. (Previously presented) The method of Claim 50, wherein said stored information comprises information relating to the occupants of the structure within which said elevator car operates.

5 55. (Previously presented) The method of Claim 50, further comprising:
detecting a plurality of commands directing said elevator car to respective ones of a plurality of destinations; and
retrieving and displaying a plurality of stored information relating to respective ones of said plurality of destinations, said act of displaying comprising displaying the respective stored
10 information in the order in which said destinations are encountered during travel of said elevator car.

56. (Previously presented) The method of Claim 50, wherein the act of sampling comprises using Hidden Markov Modeling (HMM) to analyze said speech.

15 57. (Previously presented) The method of Claim 50, wherein the act of sampling comprises:
identifying at least one key word or phrase within said sampled speech; and
matching at least a portion of said key word or phrase to data contained in a database having said at least portion of said key word or phrase associated therewith.

20 58. (Previously presented) The method of Claim 50, wherein the act of sampling comprises:
analyzing said sampled speech using a first algorithm to identify at least one linguistic component therein; and
analyzing said at least one linguistic component using a second algorithm adapted to determine the context of other linguistic components sampled within a predetermined time period.

25 59. (Previously presented) The method of Claim 50, wherein said act of displaying said at least portion of said stored information comprises displaying at least electronic graphic images.

30 60. (Previously presented) The method of Claim 59, wherein the act of displaying at least electronic graphic images further comprises displaying a video clip or moving animation having advertising content associated therewith.

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61. (Previously presented) The method of Claim 50, wherein the act of sampling comprises:

sampling the speech of a plurality of passengers at a plurality of different times; and
determining at least one statistic relating to the sampled speech;

5 wherein the act of retrieving comprises retrieving said stored information based at least in part on said at least one statistic.

62. (Previously presented) An electronic information system for use in an elevator, comprising;

10 at least one input device adapted to generate data relating to at least one environment external to said elevator;

a processor, operatively connected to said at least one input device, said processor receiving said data from said at least one input device;

15 at least one output device, operatively connected to said processor, for providing said selected portions of said data to at least one passenger of said elevator while said at least passenger occupies said elevator; and

a controller responsive to input from said at least one passenger, said controller adapted to control the operation of at least one aspect of said elevator, and further adapted to control the function of at least one device external to said elevator.

20 63. (Previously presented) The system of Claim 62, wherein said at least one input device comprises at least one sensor mounted remotely from said elevator.

64. (Previously presented) The system of Claim 63, wherein said at least one sensor comprises an imaging device.

65. (Previously presented) The system of Claim 64, wherein said at least one sensor further comprises a motion detector.

25 66. (Previously presented) The system of Claim 62, wherein said at one external device comprises a lighting system.

67. (Previously presented) The system of Claim 62, wherein said at least one external device comprises a security monitoring system.

30 68. (Previously presented) The system of Claim 62, wherein said controller is further adapted to recognize the speech of said at least one passenger and control at least one function based thereon.

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69. (Previously presented) A method of selectively providing information to the passengers of an elevator car, comprising:

passively analyzing selections made via an input device by at least one of said passengers;
retrieving stored information based on said selections, said stored information being

5 contextually related thereto; and

providing at least a portion of said stored information to said at least one passenger via an output device disposed within said elevator car.

70. (Previously presented) The method of Claim 69, wherein said at least one output device comprises a display unit.

10 71. (Currently amended) The method of Claim 69, wherein the act of analyzing comprises associating at least one value for at least one parameter with said selections, and identifying said stored information for ~~retrieval~~ retrieval based on said at least one value of said at least one parameter.

72. (Previously presented) The method of Claim 71, wherein the act of associating said
15 at least one value with said at least one parameter comprises associating a data code word with a particular selection of a function of said input device selected by said passenger, and the act of identifying said stored information comprises matching said code word to data contained in a database having said same code word associated therewith.

20 73. (Previously presented) The method of Claim 71, wherein the act of associating said at least one value with said at least one parameter comprises associating a particular selection of a function of said input device selected by said passenger with a subset of said stored information relating to said selected function.

74. (Previously presented) The method of Claim 73, wherein said function comprises directing said elevator car to a particular destination within a structure, and said subset of stored
25 information comprises information relating to the occupants of said particular destination.

75. (Previously presented) The method of Claim 74, further comprising:
detecting a plurality of commands directing said elevator car to respective ones of a plurality of destinations; and

30 retrieving and displaying a plurality of stored information relating to respective ones of said plurality of destinations, said act of providing comprising displaying the respective stored

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information in the order in which said destinations are encountered during travel of said elevator car.

76. (Previously presented) The method of Claim 69, wherein the act of providing comprises displaying a video clip or moving animation having advertising content associated therewith.

77. (Previously presented) A method of providing selected information to the passengers of an elevator car, comprising:

passively sampling the speech of at least one of said passengers;

retrieving stored information based on said sampled speech, said stored information being contextually related thereto; and

providing at least a portion of said stored information to said at least one passenger via an output device disposed within said elevator car.

78. (Previously presented) The method of Claim 77, wherein said act of retrieving comprises retrieving a graphic data file from a data storage device.

79. (Previously presented) The method of Claim 77, further comprising:
analyzing the context of said speech using an algorithm; and
identifying said stored information using said algorithm and based at least in part based on said context.

80. (Currently amended) The method of Claim 79, wherein the act of analyzing comprises associating at least one value for at least one parameter with said data, and identifying said stored information for ~~retrieval~~ retrieval based on said at least one value of said at least one parameter.

81. (Previously presented) The method of Claim 77, wherein said stored information comprises information relating to the occupants of the structure within which said elevator car operates.

82. (Previously presented) The method of Claim 77, further comprising:
detecting a plurality of commands directing said elevator car to respective ones of a plurality of destinations; and

retrieving and displaying a plurality of stored information relating to respective ones of said plurality of destinations, said act of providing comprising displaying the respective stored

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information in the order in which said destinations are encountered during travel of said elevator car.

83. (Previously presented) The method of Claim 77, wherein the act of sampling comprises:

5 identifying at least one key word or phrase within said sampled speech; and
matching at least a portion of said key word or phrase to data contained in a database having said at least portion of said key word or phrase associated therewith.

84. (Previously presented) The method of Claim 77, wherein the act of sampling comprises:

10 analyzing said sampled speech using a first algorithm to identify at least one linguistic component therein; and
analyzing said at least one linguistic component using a second algorithm adapted to determine the context of other linguistic components sampled within a predetermined time period.

85. (Previously presented) The method of Claim 77, wherein the act of sampling
15 comprises:
sampling the speech of a plurality of passengers at a plurality of different times; and
determining at least one statistic relating to the sampled speech;
wherein the act of retrieving comprises retrieving said stored information based at least in part on said at least one statistic.

20 86. (New) A method of selectively providing information to the passengers of an elevator car, comprising:

a step for passively sampling the speech of at least one of said passengers;
a step for retrieving stored information based on said sampled speech, said stored information being contextually related to at least portions of said sampled speech; and
25 a step for providing at least a portion of said stored information to said at least one passenger via an output means disposed within said elevator car.

87. (New) An electronic information system for use in an elevator, comprising:
at least one input means adapted for the generation of signals relating to at least one environment external to said elevator;

30 processor means, operatively connected to said at least one input device, said processor means receiving said signals from said at least one input means;

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at least one output means, operatively connected to said processor, for providing said selected portions of said signals to at least one passenger of said elevator while said at least passenger occupies said elevator; and

5 controller means responsive to input from said at least one passenger, said controller means adapted to control the operation of at least one aspect of said elevator, and further adapted to control the function of at least one device external to said elevator.

88. (New) A security system for use in an elevator, comprising:

10 at least one input device adapted to generate signals relating to at least one environment external to said elevator, said at least one input device being selected from the group consisting of: (i) a camera, (ii) an ultrasonic device; and (iii) an infrared device;

a processing circuit, in signal communication with said at least one input device, said processing circuit receiving said signals from said at least one input device;

15 at least one output device, in signal communication with said processing circuit, for providing said selected portions of said signals to at least one passenger of said elevator while said at least passenger occupies said elevator; and

a controller responsive to input from said at least one passenger, said controller adapted to control the operation of at least one aspect of said elevator, and further adapted to control the function of at least one device external to said elevator.